

Completed Technology Project (2014 - 2020)

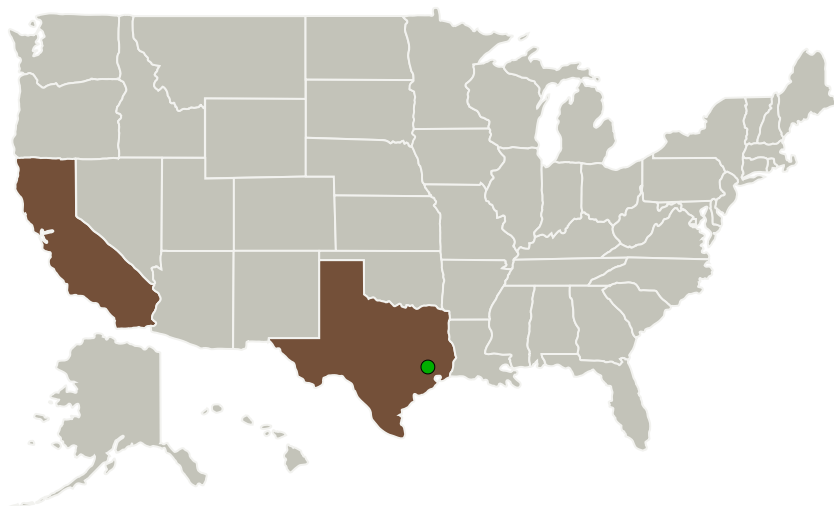
Radiation Hard Monolithic SDRAM to Support DDR2 and DDR3 Architectures, Phase II

Completed Technology Project (2014 - 2020)



Army SMDC nanosat family. The entire CubeSat initiative including NRO's Colony program would benefit. Our memory product will also address emerging MDA radiation threats. These programs include CKV, AKV, THAAD, AEGIS, MKV, and GMD for Blocks 2017 and beyond. A specific example here is the Common Kill Vehicle (CKV) where the advanced interceptor needs dense SDRAM. With the new challenge of atmospheric neutrons to High Altitude Airship (HAA) programs and NASA or Air Force UAV programs, this memory product could be a timely solution. Other military applications may include strategic missiles (Trident and Air Force Minuteman and MX upgrades), as well as many DoD tactical weapon programs with nuclear survival levels.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
Space Micro, Inc.	Lead Organization	Industry	San Diego, California
● Johnson Space Center(JSC)	Supporting Organization	NASA Center	Houston, Texas

Primary U.S. Work Locations

California	Texas
------------	-------

Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Organization:

Space Micro, Inc.

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Project Managers:

Charles R Bailey
Kathryn B Packard

Principal Investigator:

Bert R Vermeire

Co-Investigator:

Bert Vermeire

Radiation Hard Monolithic SDRAM to Support DDR2 and DDR3 Architectures, Phase II

Completed Technology Project (2014 - 2020)



Project Transitions

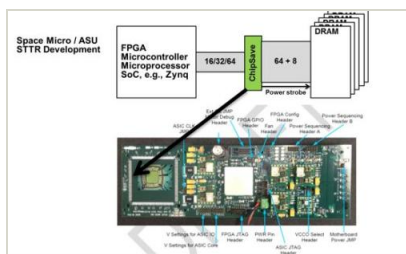
September 2014: Project Start

June 2017: Closed out

Closeout Documentation:

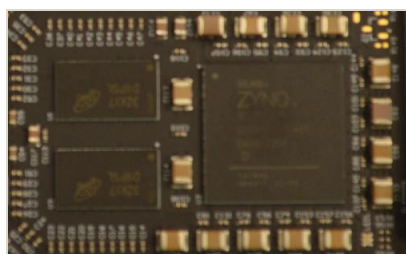
- Final Summary Chart(<https://techport.nasa.gov/file/137547>)

Images



Briefing Chart Image

Radiation Hard Monolithic SDRAM to Support DDR2 and DDR3 Architectures, Phase II
(<https://techport.nasa.gov/image/131604>)

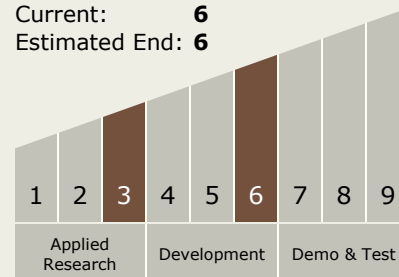


Final Summary Chart Image

Radiation Hard Monolithic SDRAM to Support DDR2 and DDR3 Architectures, Phase II Project Image
(<https://techport.nasa.gov/image/131222>)

Technology Maturity (TRL)

Start: **3**
Current: **6**
Estimated End: **6**



Target Destinations

The Sun, Earth, The Moon, Mars, Others Inside the Solar System, Outside the Solar System